

POWER Unit

POWER

The schematic diagram illustrates the power supply and control circuitry of a POWER Unit. The power supply section starts with an AC-INLET connected to a transformer (F701). The secondary winding of the transformer is connected to a bridge rectifier (D701) and a filter capacitor (C701). The output of the rectifier is connected to a series of resistors (R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758) and capacitors (C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758) to regulate the voltage. The output of the power supply is connected to a main power rail, which then branches out to various other components in the system. The control circuitry includes three integrated circuits: IC705 (MR4020), IC708 (NJM2904M), and IC704 (MR4030). IC705 is connected to the main power rail and provides a reference voltage to the other ICs. IC708 is a precision centrometer amplifier that provides a high-precision output signal. IC704 is a precision centrometer amplifier that provides a high-precision output signal. The schematic also includes various resistors (R701-R758), capacitors (C701-C758), diodes (D701-D758), and transistors (Q701-Q758) to complete the circuit.

